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FILE COVERS 1971 TO PATENT PUBLICATION DATE: 1 May 2001 (20010501/PD)
FILE LAST UPDATED: 1 May 2001 (20010501/ED)
HIGHEST PATENT NUMBER: US6226794
CA INDEXING IS CURRENT THROUGH 1 May 2001 (20010501/UPCA)
ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 1 May 2001 (20010501/PD)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Dec 2000
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>>> terms from the IPC subject headings and subheadings.            <<<

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=> s nucleic acid synthesis and array
         33011 NUCLEIC
        522516 ACID
        160693 SYNTHESIS
           809 NUCLEIC ACID SYNTHESIS
                 (NUCLEIC(W)ACID(W)SYNTHESIS)
        231087 ARRAY
L1         174 NUCLEIC ACID SYNTHESIS AND ARRAY

=> s l1 and 1960-1997/ed
       2232130 1960-1997/ED
                 (600000-979999/ED)
L2          29 L1 AND 1960-1997/ED

=> d 1-29 bib abs

L2   ANSWER 1 OF 29  USPATFULL
AN     97:101639  USPATFULL
TI     Method of identifying sequence in a nucleic acid target using
       interactive sequencing by hybridization
IN     Skiena, Steven S., Port Jefferson, NY, United States
PA     Biota Corp., Locust Valley, NY, United States (U.S. corporation)
PI     US 5683881  19971104
AI     US 1995-546423  19951020 (8)
DT     Utility
EXNAM  Primary Examiner: Jones, W. Gary; Assistant Examiner: Shoemaker, Debra
CLMN   Number of Claims: 14
ECL    Exemplary Claim: 1
DRWN   5 Drawing Figure(s); 3 Drawing Page(s)
LN.CNT 887
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB     A new approach is proposed for sequencing by hybridization (SBH), which
       uses interaction to dramatically reduce the number of oligonucleotides
       used for de novo sequencing of large DNA fragments, while preserving
the
       parallelism which is the primary advantage of SBH. In particular, a
       series of rounds is performed, starting from an initial fixed
       oligonucleotide array, of hybridizing a target sample against
       an array, and then designing a new oligonucleotide
       array in response to the results of the rounds to date, until
       the sequence is determined.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
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L2 ANSWER 2 OF 29 USPATFULL
AN 97:101455 USPATFULL
TI Use of RIPonucleases for treating parasitic and viral diseases
IN Taraschi, Theodore, Medford, NJ, United States
Nicolas, Emmanuelle, Philadelphia, PA, United States
PA Thomas Jefferson University, Philadelphia, PA, United States (U.S. corporation)
PI US 5683692 19971104
AI US 1995-473770 19950606 (8)
DT Utility
EXNAM Primary Examiner: Wax, Robert A.; Assistant Examiner: Saidha, Tekchand
LREP Law Offices of Jane Massey Licata
CLMN Number of Claims: 2
ECL Exemplary Claim: 1
DRWN 7 Drawing Figure(s); 4 Drawing Page(s)
LN.CNT 445
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A method of treating viral and protozoal infections using RIPonucleases is provided.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 3 OF 29 USPATFULL
AN 97:96747 USPATFULL
TI Methods for producing polypeptide metal binding sites and compositions thereof
IN Barbas, Carlos F., San Diego, CA, United States
Rosenblum, Jonathan, San Diego, CA, United States
Lerner, Richard A., La Jolla, CA, United States
PA The Scripps Research Institute, La Jolla, CA, United States (U.S. corporation)
PI US 5679548 19971021
AI US 1993-77797 19930614 (8)
RLI Continuation of Ser. No. US 1993-12566, filed on 2 Feb 1993, now abandoned
DT Utility
EXNAM Primary Examiner: Feisee, Lila; Assistant Examiner: Lucas, John
LREP Fitting, Thomas; Holmes, Emily
CLMN Number of Claims: 18
ECL Exemplary Claim: 1,9
DRWN 5 Drawing Figure(s); 2 Drawing Page(s)
LN.CNT 3121
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention describes methods for producing metal binding sites on polypeptides, and particularly for producing metal binding sites within the CDR regions of immunoglobulin heavy or light chains that are displayed on the surface of filamentous phage particles. The invention also describes oligonucleotides useful for preparing the metal
binding sites, and human monoclonal antibodies produced by the present methods.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 4 OF 29 USPATFULL
AN 97:84090 USPATFULL
TI Synthesis of single-stranded labelled oligonucleotides of preselected sequence
IN Ruth, Jerry L., San Diego, CA, United States

PA Syngene, Inc., San Diego, CA, United States (U.S. corporation)
PI US 5668266 19970916
AI US 1995-439860 19950512 (8)
RLI Continuation of Ser. No. US 1994-288337, filed on 10 Aug 1994, now abandoned which is a division of Ser. No. US 1990-505032, filed on 27 Apr 1990, now abandoned which is a continuation of Ser. No. US 1987-46133, filed on 4 May 1987, now patented, Pat. No. US 4948882 which is a continuation-in-part of Ser. No. US 1984-617094, filed on 22 Feb 1984, now abandoned which is a continuation-in-part of Ser. No. US 1983-468498, filed on 22 Feb 1983, now abandoned
DT Utility
EXNAM Primary Examiner: LeGuyader, John L.; Assistant Examiner: Larson, Thomas G.
LREP Fish & Richardson P.C.
CLMN Number of Claims: 20
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 1861
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Substantially pure single-stranded oligonucleotides having a preselected sequence of not more than about 200 nucleotides, at least one of which is at a preselected position in the sequence and includes a base with a covalently attached linker arm containing or capable of binding at least one reporter group or solid support. A process for the chemical synthesis of the substantially pure single-stranded oligonucleotide and modified nucleosides useful in such synthesis are provided.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 5 OF 29 USPATFULL
AN 97:73438 USPATFULL
TI Heterodimeric receptor libraries using phagemids
IN Barbas, Carlos, La Jolla, CA, United States
Kang, Angray, Carlsbad, CA, United States
Lerner, Richard A., La Jolla, CA, United States
PA The Scripps Research Institute, La Jolla, CA, United States (U.S. corporation)
PI US 5658727 19970819
WO 9218619 19921029
AI US 1994-133011 19940608 (8)
WO 1992-US3091 19920410
19940608 PCT 371 date
19940608 PCT 102(e) date
DT Utility
EXNAM Primary Examiner: Ketter, James S.
LREP Fitting, Thomas
CLMN Number of Claims: 36
ECL Exemplary Claim: 1
DRWN 19 Drawing Figure(s); 14 Drawing Page(s)
LN.CNT 5935
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Filamentous phage comprising a matrix of cpVIII proteins encapsulating a genome encoding first and second polypeptides of an antogenously assembling receptor, such as an antibody, and a receptor comprised of

the first and second polypeptides surface-integrated into the matrix via

a filamentous phage coat protein membrane anchor domain fused to at least one of the polypeptides.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 6 OF 29 USPATFULL
AN 97:71164 USPATFULL
TI Nucleic acid-amplified immunoassay probes
IN Urdea, Michael S., Alamo, CA, United States
PA Chiron Corporation, Emeryville, CA, United States (U.S. corporation)
PI US 5656731 19970812
AI US 1993-85681 19930701 (8)
RLI Continuation of Ser. No. US 1990-519212, filed on 4 May 1990, now abandoned which is a continuation-in-part of Ser. No. US 1990-463022, filed on 10 Jan 1990, now abandoned And a continuation-in-part of Ser. No. US 1989-340031, filed on 18 Apr 1989, now patented, Pat. No. US 5124246, issued on 23 Jun 1992 which is a continuation-in-part of Ser. No. US 1988-252638, filed on 30 Sep 1988, now abandoned which is a continuation-in-part of Ser. No. US 1988-185201, filed on 22 Apr 1988, now abandoned which is a continuation-in-part of Ser. No. US 1987-109282, filed on 15 Oct 1987, now abandoned
DT Utility
EXNAM Primary Examiner: Elliott, George C.; Assistant Examiner: Marschel, Ardin H.
LREP Dylan, Ph.D., Tyler; Goldman, Kenneth M.; Blackburn, Robert P.
CLMN Number of Claims: 31
ECL Exemplary Claim: 1
DRWN 12 Drawing Figure(s); 7 Drawing Page(s)
LN.CNT 1230
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB In one aspect of this invention, various protein/nucleic acid hybrid probes are described which can be used to amplify the detectable signal in immunoassays. The protein moiety is capable of functioning either as an antibody or an antigen. The nucleic acid moiety serves as a signal amplifier. In another aspect, various methods of amplifying the detectable signal in immunoassays by use of the hybrid probes and related polynucleotide probes are disclosed.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 7 OF 29 USPATFULL
AN 97:66160 USPATFULL
TI Therapeutic-wound healing compositions and methods for preparing and using same
IN Martin, Alain, 31 Country Club Dr., Ringoes, NJ, United States 08551
PI US 5652274 19970729
AI US 1995-445813 19950522 (8)
RLI Continuation-in-part of Ser. No. US 1994-187435, filed on 27 Jan 1994, now abandoned which is a continuation of Ser. No. US 1991-798392, filed on 26 Nov 1991, now abandoned which is a continuation-in-part of Ser. No. US 1991-663500, filed on 1 Mar 1991, now abandoned
DT Utility
EXNAM Primary Examiner: Criares, Theodore J.
LREP Barish, Jean B.
CLMN Number of Claims: 16
ECL Exemplary Claim: 1
DRWN 90 Drawing Figure(s); 77 Drawing Page(s)

LN.CNT 9592
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB This invention pertains to therapeutic wound healing compositions for protecting and resuscitating mammalian cells. In one embodiment, the therapeutic wound healing composition comprises (a) pymvate, (b) an antioxidant, and (c) a mixture of saturated and unsaturated fatty acids.

In another embodiment, the therapeutic wound healing composition comprises (a) pyruvate, (b) lactate, and (c) a mixture of saturated and unsaturated fatty acids. In yet another embodiment, the therapeutic wound healing composition comprises (a) an antioxidant and (b) a mixture

of saturated and unsaturated fatty adds. In still yet another embodiment, the therapeutic wound healing composition comprises (a) lactate, (b) an antioxidant, and (c) a mixture of saturated and unsaturated fatty acids. This invention also pertains to wound healing compositions combined with a medicament which is useful for treating injured mammalian cells to form augmented wound healing compositions such as immunostimulating-wound healing compositions, antiviral-wound healing compositions, antikeratolytic-wound healing compositions, anti-inflammatory-wound healing compositions, antifungal-wound healing compositions, acne treating-wound healing compositions, sunscreen-wound healing compositions, dermatological-wound healing compositions, antihistamine-wound healing compositions, antibacterial-wound healing compositions, and bioadhesive-wound healing compositions. This invention

also pertains to wound healing compositions combined with a cytotoxic agent to form cytoprotective-wound healing compositions useful for protecting and reducing injury to mammalian cells and to razor cartridges comprising the wound healing compositions. This invention also pertains to methods for preparing and using the wound healing compositions and the topical and ingestible pharmaceutical products in which the therapeutic compositions may be used.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 8 OF 29 USPATFULL
AN 97:49510 USPATFULL
TI Apparatus and method for the detection and assay of organic molecules
IN Frankel, Robert, Rochester, NY, United States
Forsyth, James M., Macedon, NY, United States
PA Sios, Inc., Macedon, NY, United States (U.S. corporation)
PI US 5637458 19970610
AI US 1994-278033 19940720 (8)
DT Utility
EXNAM Primary Examiner: Hutzell, Paula K.; Assistant Examiner: Freed, Rachel Heather
LREP Harris Beach & Wilcox, LLP
CLMN Number of Claims: 32
ECL Exemplary Claim: 1
DRWN 18 Drawing Figure(s); 14 Drawing Page(s)
LN.CNT 1480
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A system for biomolecular separation and detection of a molecular species includes a solid state laser detector having a sample channel therein. The presence of a molecular species is indicated by a frequency

shift in the laser's output, which is detected by optical heterodyning the laser's output with the output of a reference laser. The interior of

the sample channel is optionally coated with a ligand for binding the molecular species of interest. The system involves preprocessing a sample by electroosmotic separation in channels that are lithographically formed in a two-dimensional planar substrate. Molecular separation is also accomplished in a nanostructural molecular sieve comprising spaced apart posts defining narrow channels therebetween.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 9 OF 29 USPATFULL
AN 97:27285 USPATFULL
TI Processes for synthesizing nucleotides and modified nucleotides using N.sub.
IN Reddy, M. Parameswara, Brea, CA, United States
Farooqui, Firdous, La Habra, CA, United States
PA Beckman Instruments, Inc., Fullerton, CA, United States (U.S. corporation)
PI US 5616700 19970401
AI US 1993-154370 19931118 (8)
RLI Continuation-in-part of Ser. No. US 1992-873330, filed on 24 Apr 1992, now patented, Pat. No. US 5428148, issued on 27 Jun 1995
DT Utility
EXNAM Primary Examiner: Marschel, Ardin H.
LREP May, William H.; Henry, Janis C.
CLMN Number of Claims: 15
ECL Exemplary Claim: 1
DRWN 24 Drawing Figure(s); 22 Drawing Page(s)
LN.CNT 1171
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Disclosed herein are protecting groups for exocyclic amino groups of the base cytosine for use in the synthesis of oligonucleotides and oligonucleoside phosphorothioates, the protecting groups being represented by the formula: --CO--(CH.sub.2).sub.0-9 --CH.sub.3. In a particularly preferred embodiment, the base cytosine is protected with acetyl (--CO--CH.sub.3), and the oligonucleotide or oligonucleoside phosphorothioate incorporating the protected cytosine is subjected to a cleavage/deprotection reagent comprising methylamine and ammonia.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 10 OF 29 USPATFULL
AN 97:10138 USPATFULL
TI Oligonucleotide families useful for producing primers
IN Sorge, Joseph A., Rancho Santa Fe, CA, United States
Shoemaker, Dan, Del Mar, CA, United States
Weiner, Michael, San Diego, CA, United States
PA Stratagene, La Jolla, CA, United States (U.S. corporation)
PI US 5599921 19970204
AI US 1991-697936 19910508 (7)
DT Utility
EXNAM Primary Examiner: Kunz, Gary L.
LREP Halluin, Esq., Albert P.Pennie & Edmunds
CLMN Number of Claims: 15
ECL Exemplary Claim: 1
DRWN 6 Drawing Figure(s); 6 Drawing Page(s)
LN.CNT 1776
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A composition comprising a family of oligonucleotides all of the same length, said family defined by a nucleotide sequence formula containing six to eight nucleotide positions, one to three of said positions of the formula identifying positions of nucleotide variation among the family members, the remaining nucleotide positions each identifying a nucleotide that is the same in all members of the family.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 11 OF 29 USPATFULL
AN 96:114005 USPATFULL
TI Surface activated organic polymers useful for location - specific attachment of nucleic acids, peptides, proteins and oligosaccharides
IN Coassin, Peter J., San Juan Capistrano, CA, United States
Matson, Robert, Orange, CA, United States
Rampal, Jang, Yorba Linda, CA, United States
PA Beckman Instruments, Inc., Fullerton, CA, United States (U.S. corporation)
PI US 5583211 19961210
AI US 1994-343267 19941122 (8)
RLI Continuation of Ser. No. US 1992-971100, filed on 29 Oct 1992, now abandoned
DT Utility
EXNAM Primary Examiner: Kight, John; Assistant Examiner: Crane, L. Eric
LREP May, William H.; Henry, Janis C.
CLMN Number of Claims: 10
ECL Exemplary Claim: 1,6
DRWN 5 Drawing Figure(s); 5 Drawing Page(s)
LN.CNT 1766
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Disclosed herein are surface activated, organic polymers useful for biopolymer synthesis. Most preferably, aminated polypropylene is used for the synthesis of oligonucleotides thereto, and these devices are most preferably utilized for genetic analysis of patient samples.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 12 OF 29 USPATFULL
AN 96:103870 USPATFULL
TI Encoded combinatorial chemical libraries
IN Lerner, Richard, La Jolla, CA, United States
Janda, Kim, San Diego, CA, United States
Brenner, Sydney, Cambridge, England
PA The Scripps Research Institute, La Jolla, CA, United States (U.S. corporation)
PI US 5573905 19961112
AI US 1992-860445 19920330 (7)
DT Utility
EXNAM Primary Examiner: Jones, W. Gary; Assistant Examiner: Campbell, Eggerton
LREP Lewis, Donald C.
CLMN Number of Claims: 5
ECL Exemplary Claim: 1
DRWN 2 Drawing Figure(s); 2 Drawing Page(s)
LN.CNT 1894
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention describes an encoded combinatorial chemical library comprised of a plurality of bifunctional molecules having both a

chemical polymer and an identifier oligonucleotide sequence that defines the structure of the chemical polymer. Also described are the bifunctional molecules of the library, and methods of using the library to identify chemical structures within the library that bind to biologically active molecules in preselected binding interactions.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 13 OF 29 USPATFULL
AN 96:82717 USPATFULL
TI Antineoplastic cocoa extracts and methods for making and using the same
IN Romanczyk, Jr., Leo J., Hackettstown, NJ, United States
Hammerstone, Jr., John F., Nazareth, PA, United States
Buck, Margaret M., Morristown, NJ, United States
PA Mars, Incorporated, McLean, VA, United States (U.S. corporation)
PI US 5554645 19960910
AI US 1994-317226 19941003 (8)
DT Utility
EXNAM Primary Examiner: Nutter, Nathan M.
LREP Curtis, Morris & Safford, P.C.
CLMN Number of Claims: 14
ECL Exemplary Claim: 1
DRWN 96 Drawing Figure(s); 91 Drawing Page(s)
LN.CNT 1683
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Disclosed and claimed are cocoa extracts such as polyphenols or procyanidins, methods for preparing such extracts, as well as uses for them, especially as antineoplastic agents and antioxidants. Disclosed and claimed are antineoplastic compositions containing cocoa polyphenols or procyanidins and methods for treating patients employing the compositions. Additionally disclosed and claimed is a kit for treating a patient in need of treatment with an antineoplastic agent containing cocoa polyphenols or procyanidins as well as a lyophilized antineoplastic composition containing cocoa polyphenols or procyanidins. Further, disclosed and claimed is the use of the invention in antioxidant, preservative and topiosomerase-inhibiting compositions and methods.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 14 OF 29 USPATFULL
AN 96:82576 USPATFULL
TI Biopolymer synthesis using surface activated biaxially oriented polypropylene
IN Coassin, Peter J., San Juan Capistrano, CA, United States
Matson, Robert S., Orange, CA, United States
Rampal, Jang B., Yorba Linda, CA, United States
PA Beckman Instruments, Inc., Fullerton, CA, United States (U.S. corporation)
PI US 5554501 19960910
AI US 1993-145939 19931029 (8)
RLI Continuation-in-part of Ser. No. US 1992-971100, filed on 29 Oct 1992, now abandoned
DT Utility
EXNAM Primary Examiner: Horlick, Kenneth R.

LREP May, William H.; Henry, Janis C.
CLMN Number of Claims: 12
ECL Exemplary Claim: 1
DRWN 5 Drawing Figure(s); 5 Drawing Page(s)
LN.CNT 1920
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Disclosed herein are surface activated, organic polymers useful for biopolymer synthesis. Most preferably, aminated biaxially oriented polypropylene is used for the synthesis of oligonucleotides thereto, and these devices are most preferably utilized for genetic analysis of patient samples.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 15 OF 29 USPATFULL
AN 96:68131 USPATFULL
TI Single-stranded labelled oligonucleotides of preselected sequence
IN Ruth, Jerry L., San Diego, CA, United States
PA Molecular Biosystems, Inc., San Diego, CA, United States (U.S. corporation)
PI US 5541313 19960730
AI US 1994-336500 19941109 (8)
RLI Continuation of Ser. No. US 1990-505032, filed on 27 Apr 1990, now abandoned which is a continuation of Ser. No. US 1987-46133, filed on 4 May 1987, now patented, Pat. No. US 4948882 which is a continuation-in-part of Ser. No. US 1984-617094, filed on 22 Feb 1984, now abandoned which is a continuation-in-part of Ser. No. US 1983-468498, filed on 22 Feb 1983, now abandoned
DT Utility
EXNAM Primary Examiner: Robinson, Douglas W.; Assistant Examiner: Crane, L. Eric
LREP Fish & Richardson P.C.
CLMN Number of Claims: 32
ECL Exemplary Claim: 1,12,23,28
DRWN No Drawings
LN.CNT 1928
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Substantially pure single-stranded oligonucleotides having a preselected sequence of not more than about 200 nucleotides, at least one of which is at a preselected position in the sequence and includes a base with a covalently attached linker arm containing or capable of binding at least one reporter group or solid support. A process for the chemical synthesis of the substantially pure single-stranded oligonucleotide and modified nucleosides useful in such synthesis are provided.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 16 OF 29 USPATFULL
AN 96:43308 USPATFULL
TI Methods and reagents for cleaving and deprotecting oligonucleotides
IN Reddy, Parameswara M., Brea, CA, United States
Hanna, Naeem B., Fullerton, CA, United States
PA Beckman Instruments, Inc., Fullerton, CA, United States (U.S. corporation)
PI US 5518651 19960521
AI US 1994-257964 19940608 (8)

RLI Division of Ser. No. US 1992-873915, filed on 24 Apr 1992, now patented,
Pat. No. US 5348868
DT Utility
EXNAM Primary Examiner: Lilling, Herbert J.
LREP May, William H.; Henry, Janis C.; Grant, Arnold
CLMN Number of Claims: 2
ECL Exemplary Claim: 1
DRWN 9 Drawing Figure(s); 7 Drawing Page(s)
LN.CNT 1022
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Disclosed are reagents of methods for cleaving and deprotecting insolubilized and protected synthetic oligonucleotides. In a particularly preferred embodiment, the reagent comprises methylamine and
t-butylamine.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 17 OF 29 USPATFULL
AN 96:38777 USPATFULL
TI Compositions for the detection of Chlamydia trachomatis
IN Yang, Yeasing, San Diego, CA, United States
Stull, Paul D., San Diego, CA, United States
Spingola, Marc, Albuquerque, NM, United States
PA Gen-Probe Incorporated, San Diego, CA, United States (U.S. corporation)
PI US 5514551 19960507
AI US 1994-323257 19941014 (8)
DT Utility
EXNAM Primary Examiner: Jones, W. Gary; Assistant Examiner: Rees, Dianne
LREP Fisher, Carlos A.
CLMN Number of Claims: 29
ECL Exemplary Claim: 20
DRWN No Drawings
LN.CNT 2372
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Oligonucleotides and methods for the amplification and specific detection of Chlamydia trachomatis. The invention relates to amplification oligonucleotides capable of amplifying Chlamydia trachomatis nucleotide sequences and to probes and helper oligonucleotides for the specific detection of Chlamydia trachomatis nucleic acids. The invention also relates to methods for using the oligonucleotides of the present invention and specific combinations and kits useful for the detection of Chlamydia trachomatis.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 18 OF 29 USPATFULL
AN 96:36446 USPATFULL
TI Methods for the detection of Chlamydia trachomatis
IN Yang, Yeasing, San Diego, CA, United States
Stull, Paul D., San Diego, CA, United States
Spingola, Marc, Albuquerque, NM, United States
PA Gen-Probe Incorporated, San Diego, CA, United States (U.S. corporation)
PI US 5512445 19960430
AI US 1995-450186 19950525 (8)
RLI Division of Ser. No. US 1994-323257, filed on 14 Oct 1994
DT Utility
EXNAM Primary Examiner: Jones, W. Gary; Assistant Examiner: Rees, Dianne

LREP Fisher, Carlos A.
CLMN Number of Claims: 54
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 2575
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Oligonucleotides and methods for the amplification and specific detection of Chlamydia trachomatis. The invention relates to amplification oligonucleotides capable of amplifying Chlamydia trachomatis nucleotide sequences and to probes and helper oligonucleotides for the specific detection of Chlamydia trachomatis nucleic acids. The invention also relates to methods for using the oligonucleotides of the present invention and specific combinations and kits useful for the detection of Chlamydia trachomatis.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 19 OF 29 USPATFULL
AN 96:11222 USPATFULL
TI Photolabile nucleoside and peptide protecting groups
IN Fodor, Stephen P. A., Palo Alto, CA, United States
Stryer, Lubert, Stanford, CA, United States
Winkler, James L., Palo Alto, CA, United States
Holmes, Christopher P., Sunnyvale, CA, United States
Solas, Dennis W., San Francisco, CA, United States
PA Affymax Technologies N.V., Curaco, Netherlands (non-U.S. corporation)
PI US 5489678 19960206
AI US 1995-390272 19950216 (8)
RLI Continuation of Ser. No. US 1990-624120, filed on 6 Dec 1990, now abandoned which is a continuation-in-part of Ser. No. US 1990-492462, filed on 7 Mar 1990, now patented, Pat. No. US 5143854 which is a continuation-in-part of Ser. No. US 1989-362901, filed on 7 Jun 1989, now abandoned
DT Utility
EXNAM Primary Examiner: Jones, W. Gary; Assistant Examiner: Schreiber, David
LREP Townsend and Townsend and Crew
CLMN Number of Claims: 35
ECL Exemplary Claim: 1
DRWN 22 Drawing Figure(s); 17 Drawing Page(s)
LN.CNT 1796
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A synthetic strategy for the creation of large scale chemical diversity.
Solid-phase chemistry, photolabile protecting groups, and photolithography are used to achieve light-directed spatially-addressable parallel chemical synthesis. Binary masking techniques are utilized in one embodiment. A reactor system, photoremovable protective groups, and improved data collection and handling techniques are also disclosed. A technique for screening linker molecules is also provided.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 20 OF 29 USPATFULL
AN 96:9361 USPATFULL
TI Arbitrarily primed polymerase chain reaction method for fingerprinting genomes
IN McClelland, Michael, Del Mar, CA, United States
Welsh, John T., Leucadia, CA, United States
Sorge, Joseph A., Rancho Santa Fe, CA, United States

PA Stratagene, La Jolla, CA, United States (U.S. corporation)
PI US 5487985 19960130
AI US 1992-959119 19921009 (7)
RLI Continuation-in-part of Ser. No. US 1990-633095, filed on 21 Dec 1990 which is a continuation-in-part of Ser. No. US 1990-598913, filed on 15 Oct 1990, now abandoned
DT Utility
EXNAM Primary Examiner: Pahr, Margaret; Assistant Examiner: Marschel, Ardin H.
LREP Pennie & Edmonds; Halluin, Albert P.; Bortner, Scott R.
CLMN Number of Claims: 14
ECL Exemplary Claim: 1
DRWN 10 Drawing Figure(s); 10 Drawing Page(s)
LN.CNT 2019
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A rapid method for generating a set of discrete DNA amplification products characteristic of a genome as a "fingerprint" comprises the steps of: priming target nucleic acid of a genome or from a cellular RNA
preparation with an single-stranded primer to form primed nucleic acid such that a substantial degree of internal-mismatching occurs between the primer end the target nucleic acid; amplifying the primed nucleic acid by performing at least one cycle of polymerase chain reaction amplification; and amplifying the product of step (2) by performing at least about 10 cycles of polymerase chain reaction amplification. The method is known as the arbitrarily primed polymerase chain reaction (AP-PCR) method and is suitable for the identification of bacterial species and strains, including Staphylococcus and Streptococcus species,
mammals and plants. The method of the present invention can identify species, cell types or tissues rapidly, using only a small amount of biological material, and does not require knowledge of the nucleotide sequence or other molecular biology of the nucleic acids of the organisms to be identified. The method can also be used to generate detectable polymorphisms for use in genetic mapping of animals and humans, and be used to detect differential gene expression within tissues

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 21 OF 29 USPATFULL
AN 95:103613 USPATFULL
TI Construction of geometrical objects from polynucleotides
IN Seeman, Nadrian C., New York, NY, United States
Zhang, Yuwen, Queens, NY, United States
PA New York University, New York, NY, United States (U.S. corporation)
PI US 5468851 19951121
AI US 1993-114301 19930902 (8)
RLI Division of Ser. No. US 1991-805564, filed on 12 Dec 1991, now patented,
Pat. No. US 5278051
DT Utility
EXNAM Primary Examiner: Jones, W. Gary; Assistant Examiner: Horlick, Kenneth R.
LREP Browdy and Neimark
CLMN Number of Claims: 2
ECL Exemplary Claim: 1
DRWN 19 Drawing Figure(s); 10 Drawing Page(s)
LN.CNT 1410

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB One, two and three dimensional structures may be synthesized or modified from polynucleotides. A core structure is expanded by cleavage of a loop with a restriction endonuclease and ligating another polynucleotide to the sticky ends so that the recognition site of the restriction enzyme is not reformed. This process is repeated as many times as necessary to synthesize any desired structure. The structures formed have a wide range of uses.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 22 OF 29 USPATFULL
AN 95:69203 USPATFULL
TI Consensus sequence primed polymerase chain reaction method for fingerprinting genomes
IN McClelland, Michael, Del Mar, CA, United States
Welsh, John T., Leucadia, CA, United States
PA California Institute of Biological Research, La Jolla, CA, United States
(U.S. corporation)
PI US 5437975 19950801
AI US 1991-661591 19910225 (7)
DT Utility
EXNAM Primary Examiner: Parr, Margaret; Assistant Examiner: Horlick, Kenneth R.
LREP Pennie & Edmonds
CLMN Number of Claims: 4
ECL Exemplary Claim: 1
DRWN 5 Drawing Figure(s); 3 Drawing Page(s)
LN.CNT 1710
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A rapid method for generating a set of discrete DNA amplification products characteristic of a genome as a "fingerprint" for typing the genome comprises the steps of: forming a polymerase chain reaction (PCR) admixture by combining, in a PCR buffer, genomic DNA and at least one structural RNA consensus primer, and subjecting the PCR admixture to a plurality of PCR thermocycles to produce a plurality of DNA segments, thereby forming a set of discrete DNA amplification products. The method is known as the consensus sequence primed polymerase chain reaction (CP-PCR) method and is suitable for the identification of bacterial species and strains, including Staphylococcus and Streptococcus species, mammals and plants. The method of the present invention can identify species rapidly, using only a small amount of biological material, and does not require knowledge of the nucleotide sequence or other molecular biology of the nucleic acids of the organisms to be identified. Only one primer sequence is required for amplification and/or identification. The method can also be used to generate detectable polymorphisms for use in genetic mapping of animals and humans.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 23 OF 29 USPATFULL
AN 95:58250 USPATFULL
TI N.sup.4 - acylated cytidinyl compounds useful in oligonucleotide synthesis
IN Reddy, Parameswara M., Brea, CA, United States
Hanna, Naeem B., Fullerton, CA, United States
PA Beckman Instruments, Inc., Fullerton, CA, United States (U.S. corporation)
PI US 5428148 19950627
AI US 1992-873330 19920424 (7)
DT Utility
EXNAM Primary Examiner: Rollins, John W.; Assistant Examiner: Crane, L. Eric
LREP May, William H.; Harder, P. R.; Henry, Janis C.
CLMN Number of Claims: 5
ECL Exemplary Claim: 1,5
DRWN 8 Drawing Figure(s); 7 Drawing Page(s)
LN.CNT 859
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Disclosed herein are protecting groups for exocyclic amino groups of the
bases adenine, guanine and cytosine for use in the synthesis of oligonucleotides, the protecting groups being represented by the formula: --CO-- (CH.sub.2).sub.0-9 --CH.sub.3. In a particularly preferred embodiment, the base cytosine is protected with acetyl (--CO--CH.sub.3), and the oligonucleotide incorporating said protected cytosine is subjected to a cleavage/deprotection reagent comprising at least one straight chain alkylamine having from 1 to about 10 carbon atoms.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 24 OF 29 USPATFULL
AN 95:54452 USPATFULL
TI DNA encoding cytokine-induced protein, TSG-14
IN Lee, Tae H., Cambridge, MA, United States
Lee, Gene W., New York, NY, United States
Vilcek, Jan, New York, NY, United States
PA New York University, New York, NY, United States (U.S. corporation)
PI US 5426181 19950620
AI US 1992-929580 19920814 (7)
RLI Continuation of Ser. No. US 1991-640492, filed on 14 Jan 1991, now abandoned
DT Utility
EXNAM Primary Examiner: Draper, Garnette D.; Assistant Examiner: Kemmerer, Elizabeth C.
LREP Browdy and Neimark
CLMN Number of Claims: 8
ECL Exemplary Claim: 1
DRWN 36 Drawing Figure(s); 19 Drawing Page(s)
LN.CNT 3175
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Pleiotropic pro-inflammatory cytokines, such as TNF and IL-1, induce expression of a polypeptide molecule, termed TSG-14, in connective tissue cells. The TSG-14 polypeptide and functional derivatives thereof,
DNA coding therefor, expression vehicles, such as a plasmids, and host cells transformed or transfected with the DNA molecule, and methods for producing the polypeptide and the DNA are provided. Antibodies specific for the TSG-14 polypeptide are disclosed, as is a method for detecting

the presence of TSG-14 polypeptide in a biological sample, using the antibody or another molecule capable of binding to TSG-14 such as hyaluronic acid. A method for detecting the presence of nucleic acid encoding a normal or mutant TSG-14 polypeptide, a method for measuring induction of expression of TSG-14 in a cell using either nucleic acid hybridization or immunoassay, a method for identifying a compound capable of inducing the expression of TSG-14 in a cell, and a method for measuring the ability of a cell to respond to TNF are also provided.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 25 OF 29 USPATFULL
AN 95:52233 USPATFULL
TI Very large scale immobilized polymer synthesis
IN Fodor, Stephen P. A., Palo Alto, CA, United States
Stryer, Lubert, Stanford, CA, United States
Pirrung, Michael C., Durham, NC, United States
Read, J. Leighton, Palo Alto, CA, United States
PA Affymax Technologies N.V., Netherlands Antilles (non-U.S. corporation)
PI US 5424186 19950613
AI US 1991-805727 19911206 (7)
RLI Continuation-in-part of Ser. No. US 1990-492462, filed on 7 Mar 1990, now patented, Pat. No. US 5143854 And a continuation-in-part of Ser. No. US 1990-624120, filed on 6 Dec 1990 which is a continuation-in-part of Ser. No. US -49246 And Ser. No. US 1989-362901, filed on 7 Jun 1989, now abandoned , said Ser. No. US -492462 which is a continuation-in-part of Ser. No. US -362901
DT Utility
EXNAM Primary Examiner: Kepplinger, Esther M.; Assistant Examiner: Green, Lora M.
LREP Kaster, Kevin R.; Norviel, Vern
CLMN Number of Claims: 17
ECL Exemplary Claim: 1
DRWN 60 Drawing Figure(s); 42 Drawing Page(s)
LN.CNT 4134
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A method for synthesizing oligonucleotides on a solid substrate. The method provides for the irradiation of a first predefined region of the substrate without irradiation of a first predefined region of the substrate. The irradiation of a second predefined region of the substrate. The irradiation step removes a protecting group therefrom. The substrate is contacted with a first nucleotide to couple the nucleotide to the substrate in the first predefined region. By repeating these steps, an **array** of diverse oligonucleotides is formed on the substrate.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 26 OF 29 USPATFULL
AN 95:9803 USPATFULL
TI Tumor necrosis factor-induced protein TSG-6
IN Lee, Tae H., Piscataway, NJ, United States
Wisniewski, Hans-Georg, Spring Valley, NY, United States
Vilcek, Jan, New York, NY, United States
PA New York University, New York, NY, United States (U.S. corporation)

PI US 5386013 19950131
AI US 1993-24868 19930301 (8)
RLI Continuation of Ser. No. US 1991-642312, filed on 14 Jan 1991, now abandoned
DT Utility
EXNAM Primary Examiner: Draper, Garnette D.; Assistant Examiner: Kemmerer, Elizabeth C.
LREP Browdy and Neimark
CLMN Number of Claims: 2
ECL Exemplary Claim: 1
DRWN 50 Drawing Figure(s); 20 Drawing Page(s)
LN.CNT 2952
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Pleiotropic pro-inflammatory cytokines, such as TNF and IL-1, induce expression of a protein molecule, termed TSG-6, in connective tissue cells. The TSG-6 protein and functional derivatives thereof, DNA coding therefor, expression vehicles, such as a plasmids, and host cells transformed or transfected with the DNA molecule, and methods for producing the protein and the DNA are provided. Antibodies specific for the TSG-6 protein are disclosed, as is a method for detecting the presence of TSG-6 protein in a biological sample, using the antibody or another molecule capable of binding to TSG-6 such as hyaluronic acid. A method for detecting the presence of nucleic acid encoding a normal or mutant TSG-6 protein, a method for measuring induction of expression of TSG-6 in a cell using either nucleic acid hybridization or immunoassay, a method for identifying a compound capable of inducing the expression of TSG-6 in a cell, and a method for measuring the ability of a cell to respond to TNF are also provided.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 27 OF 29 USPATFULL
AN 94:82163 USPATFULL
TI Methods and reagents for cleaving and deprotecting oligonucleotides
IN Reddy, Parameswara M., Brea, CA, United States
Hanna, Naeem B., Fullerton, CA, United States
PA Beckman Instruments, Inc., Fullerton, CA, United States (U.S. corporation)
PI US 5348868 19940920
AI US 1992-873915 19920424 (7)
DT Utility
EXNAM Primary Examiner: Lilling, Herbert J.
LREP May, William H.; Harder, Paul R.; Henry, Janis C.
CLMN Number of Claims: 14
ECL Exemplary Claim: 1
DRWN 9 Drawing Figure(s); 7 Drawing Page(s)
LN.CNT 1031
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Disclosed are reagents of methods for cleaving and deprotecting insolubilized and protected synthetic oligonucleotides. In a particularly preferred embodiment, the reagent comprises methylamine and
t-butylamine.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 28 OF 29 USPATFULL
AN 94:3675 USPATFULL
TI Construction of geometrical objects from polynucleotides

IN Seeman, Nadrian C., New York, NY, United States
Zhang, Yuwen, Queens, NY, United States
PA New York University, New York, NY, United States (U.S. corporation)
PI US 5278051 19940111
AI US 1991-805564 19911212 (7)
DT Utility
EXNAM Primary Examiner: Schwartz, Richard A.; Assistant Examiner: Guzo, David
LREP Browdy and Neimark
CLMN Number of Claims: 13
ECL Exemplary Claim: 1
DRWN 17 Drawing Figure(s); 10 Drawing Page(s)
LN.CNT 1388
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB One, two and three dimensional structures may be synthesized or modified from polynucleotides. A core structure is expanded by cleavage of a loop with a restriction endonuclease and ligating another polynucleotide to the sticky ends so that the recognition site of the restriction enzyme is not reformed. This process is repeated as many times as necessary to synthesize any desired structure. The structures formed have a wide range of uses.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 29 OF 29 USPATFULL
AN 90:63605 USPATFULL
TI Single-stranded labelled oligonucleotides, reactive monomers and methods of synthesis
IN Ruth, Jerry L., San Diego, CA, United States
PA Syngene, Inc., San Diego, CA, United States (U.S. corporation)
PI US 4948882 19900814
AI US 1987-46133 19870504 (7)
RLI Continuation-in-part of Ser. No. US 1984-617094, filed on 22 Feb 1984, now abandoned which is a continuation-in-part of Ser. No. US 1983-468498, filed on 22 Feb 1983, now abandoned
DT Utility
EXNAM Primary Examiner: Rollins, John W.; Assistant Examiner: Crane, L. Eric
LREP Pretty, Schroeder Brueggemann & Clark
CLMN Number of Claims: 4
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 1648
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Substantially pure single-stranded oligonucleotides having a preselected sequence of not more than about 200 nucleotides, at least one of which is at a preselected position in the sequence and includes a base with a covalently attached linker arm containing or capable of binding at least one reporter group or solid support. A process for the chemical synthesis of the substantially pure single-stranded oligonucleotide and modified nucleosides useful in such synthesis are provided.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.